# Winokur's 40 Glitter Comps

I haven't tried all of these, I don't think many people would have but for all you glitter buffs here is Robert Winokurs 40 Glitter Formulas.

#### Winokur #1

Potassium Nitrate 35
Strontium Nitrate 15
Charcoal Airfloat 13
Magnalium Granular -200 mesh 12
Sulfur 10
Antimony Trisulfide, Chinese Needle 10
Dextrin 5

Pinkish glitter. Hygroscopic, but useable.

#### Winokur #2

Potassium Nitrate 40 Strontium Nitrate 10 Charcoal Airfloat 13 Magnalium Granular -200 mesh 12 Sulfur 10 Antimony Trisulfide, Chinese Needle 10 Dextrin 5

Pinkish glitter. Hygroscopic, but useable.

## Winokur #3

Potassium Nitrate 50
Magnalium Granular -200 mesh 12
Antimony Trisulfide, Chinese Needle 10
Sulfur 9
Charcoal Airfloat 8
Strontium Carbonate 6
Dextrin 4

Pinkish glitter. Hygroscopic, but useable.

#### Winokur #4

Potassium Nitrate 50
Magnalium Granular -200 mesh 12
Antimony Trisulfide, Chinese Needle 10
Sulfur 9
Charcoal Airfloat 8
Sodium Oxalate 6
Dextrin 4

Pinkish glitter. Hygroscopic, but useable.

## Winokur #5

Potassium Nitrate 40 Sodium Nitrate 10 Charcoal Airfloat 10 Antimony Trisulfide, Chinese Needle 10 Sulfur 9 Magnalium Granular -200 mesh 9 Sodium Oxalate 8 Dextrin 4

Pinkish glitter. Even more hygroscopic than win 1-4, but useable.

#### Winokur #6

Potassium Nitrate 53
Antimony Trisulfide, Chinese Needle 16
Charcoal Airfloat 13
Sulfur 9
Aluminium, Flake, bright -325 mesh, 36 micron 4.5
Dextrin 4.5

A white glitter with a rather high percentage of antimony trisulfide.

#### Winokur #7

Potassium Nitrate 35
Barium Nitrate 20
Sulfur 14
Charcoal Airfloat 10
Aluminium, atom, spher, 120-325 mesh, 20 micron
Sodium Oxalate 8
Dextrin 4

Gold glitter that uses sodium oxalate to enhance the glitter without the use of antimony trisulfide. Sodium bicarbonate may replace the oxalate with similar results.

# Winokur #8

Potassium Nitrate 37
Barium Nitrate 15
Sulfur 15
Magnalium Granular -200 mesh 13
Charcoal Airfloat 10
Iron (III) Oxide, red 6
Dextrin 4

White glitter that uses iron oxide and sulfur to replace antimony trisulfide. While the effect is inferior to antimony, the formula is still useable.

## Winokur #9

Potassium Nitrate 35
Barium Nitrate 20
Magnalium Granular -200 mesh 12
Charcoal Airfloat 10
Sulfur 10
Antimony Trisulfide, Chinese Needle 9
Dextrin 4

Good white glitter that uses barium nitrate as both the oxidizer and the "retardant."

#### Winokur #10

Barium Nitrate 20 Sulfur 17 Aluminium, atom, spher, 120-325 mesh, 20 micron 14 Charcoal Airfloat 10 Dextrin 4

Excellent white glitter with long tail, fine grain and dense

#### Winokur #11

Potassium Nitrate 40
Barium Nitrate 20
Aluminium, atom, spher, 120-325 mesh, 20 micron 14
Sulfur 10
Charcoal Airfloat 10
Dextrin 5

Excellent white glitter with long tail, fine grain and dense.

#### Winokur #12

Potassium Nitrate 40
Barium Nitrate 20
Aluminium, atom, spher, 120-325 mesh, 20 micron 14
Sulfur 10
Charcoal Airfloat 10
Dextrin 5
Iron (III) Oxide, red 1

Excellent white glitter with long tail, fine grain and dense.

## Winokur #13

Potassium Nitrate 50
Antimony Trisulfide, Chinese Needle 10
Charcoal Airfloat 9
Sulfur 9
Aluminium, atom, spher, 120-325 mesh, 20 micron 6
Dextrin 4
Magnalium Granular -200 mesh 3

Off-white glitter with attractive lacy effect.

## Winokur #14

Potassium Nitrate 50
Sulfur 11
Charcoal Airfloat 10
Aluminium, atom, spher, 120-325 mesh, 20 micron 8
Dextrin 5
Antimony Trisulfide, Chinese Needle 5
Sodium Bicarbonate 5
Magnalium Granular -200 mesh 4

Off-white glitter with attractive lacy effect.

## Winokur #15

Magnalium Granular -325 mesh 14
Antimony Trisulfide, Chinese Needle 10
Charcoal Airfloat 9
Sulfur 9
Sodium Bicarbonate 7
Dextrin 4

Gold magnalium glitter. Large flashes, good delay and long tail.

#### Winokur #16

Potassium Nitrate 48
Magnalium Granular -200 mesh 12
Charcoal Airfloat 11
Sulfur 9
Antimony Trisulfide, Chinese Needle
Sodium Bicarbonate 7
Dextrin 4

Gold glitter almost identical to Win 15, with large flashes, good delay and long tail.

## Winokur #17

Potassium Nitrate 47 Charcoal Airfloat 13 Sulfur 13 Magnalium Granular -200 mesh 12 Antimony Trisulfide, Chinese Needle 10 Dextrin 5

Similar to Win 15 and 16 except white in color instead of gold.

## Winokur #18

Potassium Nitrate 50
Sulfur 15
Magnalium Granular -200 mesh 13
Charcoal Airfloat 10
Antimony Trisulfide, Chinese Needle
Dextrin 5

Similar to Win 15 and 16 except white in color instead of gold.

## Winokur #19

Potassium Nitrate 50 Sulfur 20 Charcoal Airfloat 10 Magnalium Granular -200 mesh 10 Sodium Bicarbonate 6 Dextrin 4

Coarse gold glitter with short tail and moderate density. The advantage is that it doesn't contain antimony trisulfide, making it a cheaper glitter comp.

## Winokur #20

Potassium Nitrate 48 Sulfur 17 Magnalium Granular -200 mesh 12 Charcoal Airfloat 10 Sodium Bicarbonate 5 Iron (III) Oxide, red 4 Dextrin 4

Gold glitter similar to Win 19, with very long delay creating more of a gold strobe effect. Note the absence of antimony.

#### Winokur #21

Chemical Name Parts
Potassium Nitrate 52
Sulfur 15
Charcoal Airfloat 10
Aluminium, Flake, bright -325 mesh, 36 micron
Antimony Trisulfide, Chinese Needle 6
Sodium Bicarbonate 6
Dextrin 5

Medium grained dense gold glitter using baking soda as a burning inhibitor and glitter enhancer.

#### Winokur #22

Potassium Nitrate 50
Sulfur 18
Charcoal Airfloat 10
Aluminium, Flake, bright -325 mesh, 36 micron
Sodium Bicarbonate 6
Antimony Trisulfide, Chinese Needle 4
Dextrin 4

Medium grained dense gold glitter using baking soda as a burning inhibitor and glitter enhancer.

## Winokur #23

Potassium Nitrate 50 Sulfur 20 Charcoal Airfloat 10 Aluminium, Flake, bright -325 mesh, 36 micron 8 Sodium Bicarbonate 8 Dextrin 4

Medium grained dense gold glitter using baking soda as a burning inhibitor and glitter enhancer. Note the absence of antimony.

#### Winokur #24

Potassium Nitrate 52 Sulfur 21 Charcoal Airfloat 10 Aluminium, Flake, bright -325 mesh, 36 micron 6 Sodium Chloride 6 Dextrin 5

Produces a good gold glitter with excellent color and good delay. Unfortunately, it is quite hygroscopic.

#### Winokur #25

```
Sulfur 17
Charcoal Airfloat 10
Aluminium, Flake, bright -325 mesh, 36 micron
Sodium Bicarbonate 5
Iron (III) Oxide, red 5
Dextrin 5
```

A silver glitter with fairly large flashes and a medium short tail. No more than 8% water can be used when mixing. The low usage of expensive metals makes this a very cheap formula ideally suited for comets.

#### Winokur #26

```
Potassium Nitrate 52
Sulfur 21
Charcoal Airfloat 10
Aluminium, Flake, bright -325 mesh, 36 micron
Iron (III) Oxide, red 6
Dextrin 6
```

A silver glitter with fairly large flashes and a medium short tail. The low usage of expensive metals makes this a very cheap formula ideally suited for comets.

#### Winokur #27

```
Potassium Nitrate 50
Antimony Trisulfide, Chinese Needle 10
Charcoal Airfloat 9
Sulfur 9
Aluminium, atom, spher, 120-325 mesh, 20 micron 9
Sodium Bicarbonate 9
Dextrin 4
```

A fine grained off white glitter that produces small but symmetrical flashes. Fallout with this formula is large enough to pose a potential problem

## Winokur #28

```
Potassium Nitrate 50
Antimony Trisulfide, Chinese Needle 10
Charcoal Airfloat 9
Sulfur 9
Sodium Bicarbonate 9
Aluminium, atom, spher, 120-325 mesh, 20 micron 60
Dextrin 4
```

Aluminium, Flake, Dark, American Dark, -325 mesh 3

A fine grained glitter that produces small but symmetrical flashes. Dark aluminium is added to solve problems with fallout and increase flash density.

## Winokur #29

```
Potassium Nitrate 50
Sulfur 15
Charcoal Airfloat 10
Antimony Trisulfide, Chinese Needle 10
Aluminium, atom, spher, 120-325 mesh, 20 micron
Sodium Bicarbonate 7
Dextrin 4
```

Aluminium, Flake, Dark, American Dark, -325 mesh

A fine grained glitter that produces small but symmetrical flashes. Dark aluminium is added to solve problems with fallout and increase flash density.

#### Winokur #30

```
Potassium Nitrate 50
Antimony Trisulfide, Chinese Needle 10
Charcoal Airfloat 9
Sulfur 9
Aluminium, atom, spher, 120-325 mesh, 20 micron 8
Sodium Bicarbonate 6
Aluminium, Flake, Dark, American Dark, -325 mesh
Dextrin 4
```

A fine grained glitter that produces small but symmetrical flashes. Dark aluminium is added to solve problems with fallout and increase flash density.

#### Winokur #31

```
Potassium Nitrate 45
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Barium Nitrate 10
Charcoal Airfloat 10
Sulfur 10
Dextrin 5
Iron (III) Oxide, red 4
Barium Carbonate 4
```

Excellent, cheap white glitter with medium sized flashes.

## Winokur #32

```
Potassium Nitrate 38
Barium Nitrate 14
Sulfur 13
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Charcoal Airfloat 10
Iron (III) Oxide, red 8
Dextrin 5
```

Excellent, cheap white glitter with medium sized flashes.

#### Winokur #33

```
Potassium Nitrate 43
Barium Nitrate 13
Aluminium, atom, spher, 120-325 mesh, 20 micron 13
Charcoal Airfloat 10
Sulfur 10
Iron (III) Oxide, red 7
Dextrin 4
```

Excellent, cheap white glitter with medium sized flashes.

## Winokur #34

```
Potassium Nitrate 40
Barium Nitrate 16
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Charcoal Airfloat 10
```

Sulfur 10 Dextrin 5

Excellent, cheap white glitter with medium sized flashes.

#### Winokur #35

Potassium Nitrate 36
Barium Nitrate 16
Sulfur 13
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Charcoal Airfloat 10
Iron (III) Oxide, red 8
Dextrin 5

Excellent, cheap white glitter with medium sized flashes.

#### Winokur #36

Chemical Name Parts
Potassium Nitrate 43
Barium Nitrate 16
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Charcoal Airfloat 10
Sulfur 10
Iron (III) Oxide, red 10
Dextrin 4

Excellent, cheap white glitter with medium sized flashes.

# Winokur #37

Potassium Nitrate 40
Barium Nitrate 14
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Sulfur 11
Charcoal Airfloat 10
Iron (III) Oxide, red 7
Dextrin 4
Barium Carbonate 2

Excellent, cheap white glitter with medium sized flashes.

#### Winokur #38

Potassium Nitrate 40
Barium Nitrate 13
Sulfur 12
Charcoal Airfloat 12
Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Iron (III) Oxide, red 7
Dextrin 4

White glitter with medium size flashes. Charcoal is the burning retardant. Taken from Pyrotechnica II.

## Winokur #39

Aluminium, atom, spher, 120-325 mesh, 20 micron 12
Barium Nitrate 10
Charcoal Airfloat 10
Sulfur 10
Dextrin 5
Iron (III) Oxide, red 4
Barium Carbonate 4

Excellent, cheap white glitter with medium sized flashes.

# Winokur #40

Potassium Nitrate 51
Charcoal Airfloat 19
Antimony Trisulfide, Chinese Needle 12
Aluminium, atom, spher, 120-325 mesh, 20 micron
Barium Carbonate 5
Dextrin 5
Barium Carbonate 5
Magnalium, granular, -60 mesh 2.5

Use 2% barium carbonate for first prime layer